

## **Nuclear Data Working Group**

Mark Chadwick, LANL, co-chair  
Pavel Oblozinsky, BNL, co-chair

Status: August 7, 2006

### **Nuclear Data Plenary Talk: Thursday, August 10**

Nuclear Data, P. Oblozinsky, BNL and M. Chadwick, LANL, 60'

Part 1: New ENDF/B-VII Library

Part 2: Actinides, covariances, neutronics

### **Nuclear Data WG Meeting: Friday, August 11**

#### **Agenda**

*Note: Speakers should, where appropriate, include comments on how high-performance computing can open up new opportunities.*

08:30 – 10:30

1. Introductory comments, 10'
  - Comments by Chadwick, LANL, 5'
  - Comments by Oblozinsky, BNL, 5'
2. Neutron cross section data, 50'
  - Improved cross sections for major actinides, Chadwick, LANL, 20'
  - Reduced uncertainties for minor actinides, Kawano, LANL, 10'
  - Improved cross sections for other materials
    - Zr data: New capabilities and future needs, Herman, BNL, 10'
    - Inelastic scattering on structural materials and coolants
    - Contributions from floor, all
3. Covariance data, 60'
  - Covariance data in ENDF/B-VII, D. Smith, ANL, 10'
  - Covariance tools
    - Resonance region: ORNL method, Larson, ORNL, 10'
    - Resonance region: BNL-LANL method, Rochman, BNL, 10'
    - Fast neutron region: BNL-LANL method, Herman, BNL, 10'
  - International effort and covariance vision, Oblozinsky, BNL, 10'
  - Contributions from floor, all

10:30-11:00 Coffee Break

11:00-12:00

4. Other data, 60'
  - Decay data library in ENDF/B-VII, Sonzogni, BNL, 15'
  - Post-scission fission physics data, prompt and delayed neutrons, gammas and fission products and their energies, Bonneau, LANL, 15'
  - Cross sections for gas production, recoils and damage, Haight, LANL, 10'
  - Contributions from floor, all

12:00-01:00 Lunch Break

01:00-03:00

5. Quality assurance, processing, dissemination, 50'
  - Integral validation and quality assurance, Kahler, LANL, 15'
  - Performance of ENDF/B-VIIb2 for a series of diverse ZPR/ZPPR assemblies, McKnight, ANL, 10'
  - Processing of covariances in the resonance region, Dunn, ORNL, 10'
  - Processing codes development, Kahler, LANL, 10'
  - Data dissemination, Sonzogni, BNL, 5'
6. Other topics for discussion, 30'
  - Computational needs, Herman, BNL, 10'
  - Nuclear reaction model codes development, Kawano, LANL, 10'
  - Neutronics codes development
  - Sensitivity calculations and impact of nuclear data on AFC
  - Contributions from floor, all
7. Drafting WG report, 40'